



Mr. Paul Dandrade Cumberland Farms Inc. 777 Dedham Street Canton, Massachusetts 02021-9118

RE: Cumberland Farms Inc., Station # 4010 (VDEC Site# 98-2415), 20 South Main Street,

Barre, VT - Subsurface Contaminant Investigation Report

Dear Mr. Dandrade:

Lincoln Applied Geology, Inc. (LAG) is pleased to present this Subsurface Contaminant Investigation Report for Cumberland Farms Inc. (CFI) Station # 4010 (VDEC Site # 98-2415) located at 20 South Main Street in Barre, Vermont. In response to the discovery of gasoline contaminated soils during the replacement of the Underground Storage Tank (UST) system, the Vermont Department of Environmental Conservation (VDEC) Sites Management Section (SMS) requested that a subsurface contaminant investigation be performed to determine the extent and magnitude of the petroleum contamination beneath the site. The requested contaminant investigation was performed by LAG in December, 1998 and January, 1999, and is attached. The enclosed report includes well logs, monitoring data, ground water quality results, observations made during the sensitive receptor survey, and our conclusions and recommendations for the site.

Results of the investigation show that ground water beneath the site has not been impacted by the petroleum contamination previously detected in the soils surrounding the UST system piping. There are no contaminant impacts to potential sensitive receptors. Based on data collected during the subsurface investigation, we recommend conducting a second complete site monitoring and water quality sampling event in May, 1999 to confirm the current levels. If the results are similar to those previously noted then we will recommend that the site be granted Sites Management Activities Completed (SMAC) status.

Please do not hesitate to call me or Richard S. Vandenberg, Project Manager, at (800) 477-4384, if you have any questions or comments regarding the attached report.

Sincerely,

Lincoln Applied Geology, Inc.

Jason S. Barnard Geologist

JSB/jb enclosures

cc: Chuck Schwer

# Subsurface Contaminant Investigation Report

Cumberland Farms Inc., Station # 4010 20 South Main Street, Barre, Vermont (VDEC Site #98-2415)

#### Prepared for:

Cumberland Farms Inc. 777 Dedham Street Canton, Massachusetts 02021-9118 Contact: Paul Dandrade Phone: (781) 828-4900 ext. 3416

Prepared by:

Lincoln Applied Geology, Inc. Revell Drive Lincoln, Vermont 05443 Contact: Jason S. Barnard Phone: (802) 453-4384

April 5, 1999

Prepared by:

Jason S. Barnard Geologist Reviewed and Approved by:

Stephen Revell, CPG Senior Hydrogeologist

# **Table of Contents**

Executive Summary
Site Description
Site History
Monitor Well Installation
Site Geology
Site Survey and Monitoring
Site Hydrogeology
Water Quality Sampling
Sensitive Receptor Survey
Summary of Findings
Recommendations
Table 1 Ground Water Elevation Table 2 Well Headspace PID Assay Table 3 Ground Water Quality Results Figure 1 General Location May Figure 2 Detailed Site May Figure 3 Ground Water Contour Map for January 28, 1999 Figure 4 Water Quality Map for January 28, 1999 Appendix A Detailed Well Log Appendix B Water Quality Laboratory Reports for January 28, 1990  Cont Estimate
Appendix C Cost Estimate

#### **Executive Summary**

In early May 1998, CFI and subcontractors completed the removal, closure, and replacement of the underground storage tank (UST) system piping at CFI facility (#4010), which is located at 20 South Main Street in Barre, Vermont. Lincoln Applied Geology Inc. (LAG) conducted the assessment work between May 6 and May 12, 1998 and completed the UST closure report, which was submitted to the Vermont Department of Environmental Conservation (VDEC), Underground Storage Tank Program (USTP) on June 8, 1998. During the assessment all UST distribution and ventilation piping was noted in good condition with no apparent holes and/or perforations. However, during the upgrade activities a small (six gallons of gasoline) release did occur from a product line which was immediately cleaned up via soil removal. During the remaining piping removal and assessment activities excavated soils were screened with a photoionization detector (PID) for the presence of volatile organic compounds (VOCs). Approximately 60 cubic yards (yds³) of the most highly contaminated soils (including the soil from the product line release) were removed and temporarily stockpiled on-site. Following VDEC approval, the gasoline contaminated soils were transported to the MTS Environmental, Inc. facility in Epsom New Hampshire on May 19,1998, where they were thermally treated.

Based on the results of the May UST piping upgrade, the Sites Management Section (SMS) of the Vermont Department of Environmental Conservation (VDEC) requested that additional work be performed to further define the extent and magnitude of the petroleum contamination present beneath the site.

LAG installed four monitor wells on-site on December 22, 1998 and January 8, 1999 in order to define the extent and magnitude of the contamination. Two wells (MW-1 and MW-3) were installed sidegradient of the UST and dispenser island areas and two wells (MW-2 and MW-4) were installed at locations downgradient of the UST and dispenser island areas. LAG also conducted a sensitive receptor survey by monitoring the ambient air space of the CFI building and downgradient commercial building basements. Following installation, the wells were properly developed and sampled. A complete stadia survey was then performed on all monitor wells and pertinent site structures.

On January 28, 1999 LAG was on-site to measure static ground water levels, PID evaluate each monitor well headspace, and collect ground water samples from the newly installed monitor wells. All samples were analyzed for the presence of volatile organic compounds (VOCs) by EPA 8260 and for total petroleum hydrocarbons (TPH) by EPA 8015.

Review of the January 28<sup>th</sup> water quality data shows that no petroleum related VOCs and/or TPH concentrations were quantified above method detection limits in any of the samples. Based on the data collected during this initial subsurface investigation, we recommend that a second complete site monitoring and ground water sampling event be performed in May, 1999 to confirm these non-existent levels. It is our professional opinion that the limited quantity of contaminated soils, which remain in the vicinity of the dispenser island area do not pose a significant threat to human health or to any surrounding sensitive receptors (i.e. the underlying ground water).

#### Site Description

Cumberland Farms, Inc. (CF)I facility #4010 is located at 20 South Main Street in Barre, Vermont (Figure 1). The property is bound by Vermont Route 14 (South Main Street) to the west, Vogue Salon to the north and south, and the Barre City Hospital Corporation to the east. The one-story, slab on-grade building is served by municipal water and sewer. Figure 2 is a detailed site map showing pertinent features of the site.

#### Site History

CFI and their subcontractors completed the excavation, removal, and replacement of all UST system distribution piping in May, 1998. During the work, LAG provided oversight and assessment of the piping and soils. The UST Permanent Closure Form, photoionization detector (PID) data, and photographs of the site were submitted by LAG to the Vermont Department of Environmental Conservation (VDEC), Underground Storage Tank Program (USTP) in a report dated June, 8 1998. Excavated soils were screened for the presence of VOCs using a properly calibrated photoionization detector (PID) equipped with a 10.2 electron volt (eV) lamp. Data collected during the UST piping upgrade show that soils in the vicinity of the dispenser island area contained elevated concentrations of VOCs. Additionally, during the upgrade activities a small release (approximately 6 gallons) of gasoline product occurred between the UST and dispenser island area. As a result of this release, soils containing PID readings above background (BG) levels were excavated and removed from the spill area. In order to accommodate the new distribution piping and appropriate backfill material, the most highly contaminated soils were removed from the dispenser island area. As a result of this work, approximately 60 cubic yards (yds3) of the most highly contaminated soils were removed from the excavation and ultimately disposed of at MTS Environmental in Epsom, New Hampshire (a permitted asphalt batching facility). Due to the contamination remaining in soils in the vicinity of the dispenser island area the VDEC, SMS requested that additional work be performed to further define the extent and degree of the soil and possibly ground water contamination beneath the site.

#### Monitor Well Installation

Three monitor wells (MW-1, MW-2, and MW-4) were drilled and installed using hollow stem auger drilling techniques on December 22, 1998 by T&K Drilling Inc. Due to difficult drilling conditions (i.e. refusal on large cobbles or boulders) MW-3 was not able to be installed. Due to the importance of MW-3 (side/downgradient of the dispenser island area), Tri-State Drilling and Boring was contracted to finish the well using air rotary drilling techniques. The locations of the four monitor wells are shown on Figure 2. A description of the sediments encountered during the drilling, monitor well construction details, and PID data from the split-spoon samples, are included in the detailed well logs which are included as Appendix A.

#### Site Geology

Soils encountered during drilling include very fine to medium sands, overlying medium to coarse sands, gravel, boulders, and a trace of silt. This material was deposited fluvially by the Stevens Branch of the Winooski River, which is located approximately 400 feet to the west of the site.



Review of the Centennial Geologic Map of Vermont (C.G. Doll, 1961) indicates that the underlying bedrock formation is that of the Devonian Barton River Formation (360 to 400 million years ago). The Barton River Formation consists of a interbedded siliceous limestone and phyllite.

#### Site Survey and Monitoring

On January 8, 1999, LAG conducted a stadia survey of MW-1, 2, 3, 4, and other site features pertinent to the subsurface investigation. On January 28<sup>th</sup>, LAG collected ground water level measurements from all monitor wells using an electronic interface probe capable of measuring 0.01 feet of free-floating petroleum product. LAG also assayed the headspace of each monitor well using a properly calibrated PID for the presence of petroleum related VOCs. Review of the collected data indicates that no free-floating petroleum product was present in any of the wells. The depth to ground water is approximately 21.5 feet across the site. A summary of ground water elevation data from January 28<sup>th</sup> is presented in Table 1, and PID assays are included in Table 2. Review of Table 2 indicates that the well headspace PID readings collected on January 28<sup>th</sup> were all at background (BG). The lack of significant PID measurements suggests that no significant vadose zone contamination is present beneath the site.

#### Site Hydrogeology

Ground water elevation data from January 28<sup>th</sup> was used to develop a Ground Water Contour Map (Figure 3). Review of Figure 3 shows that ground water flows across the site in a general north/northwesterly direction along a relatively flat gradient of 0.005 feet/foot.

#### Water Quality Sampling

On January 28, 1999, LAG collected water quality samples from MW-1, 2, 3, and 4 using industry accepted methods. All samples were analyzed along with a trip blank for the presence of VOCs via EPA Method 8260 and for total petroleum hydrocarbons (TPH) via EPA Method 8015 [gasoline range organics (GRO)] at Toxicon Laboratories Inc. in Bedford, Massachusetts.

The water quality results are summarized in Table 3 and are presented on the Water Quality Summary Map included as Figure 3. Copies of the laboratory reports are included as Appendix B. Review of Table 3, Figure 3, and Appendix B indicate that no detectable concentrations of VOCs and/or TPH were present in the ground water samples collected. Based on this water quality data, it is clear that ground water beneath the site has not been impacted by the residual petroleum contamination noted in soils during the UST system piping upgrade.

#### Sensitive Receptor Survey

On December 22, 1998 LAG conducted a sensitive receptor survey of the site and surrounding commercial properties. Potential sensitive receptors include the indoor air of the CFI building, the Vogue Salon, and the Groleau Construction building. The CFI building and surrounding commercial/residential buildings are all served by municipal water and sewer. Furthermore, indoor ambient air impacts are highly unlikely because the CFI building is constructed of a concrete slab on-grade. During the survey all on-site and downgradient building structures, and the one catch basin near the northwest corner of the dispenser island area were screened with a PID for the presence of VOCs. The collected data is summarized and presented in Table 2. Review of the collected data indicates that no PID readings above BG levels were



present in any of the evaluated basements or the catch basin. As a result, it is obvious that the indoor air space of on-site and downgradient buildings has not been impacted by the limited amount of residual contamination identified.

Based upon these data, LAG strongly believes that the health related risks associated with the small amount of residual gasoline contamination are non-existent.

#### Summary of Findings

Based on the data collected, observations, and the evaluations presented, the following conditions exist at the site:

- 1. A limited amount of gasoline related contamination remains in soils in the vicinity of the present day dispenser island area.
- 2. Ground water quality data indicates the ground water beneath the site has not been impacted.
- 3. There is no risk to human health or to the environment from the remaining soil contamination.

#### Recommendations

Based on these findings, the following recommendations are made:

- 1. Conduct a second complete site monitor and ground water sampling round in May 1999 to confirm the current nondetect levels.
- 2. Prepare a summary report that presents the May 1999 data from the second site monitoring and ground water sampling event. If the data is similar to that previously seen, we will formally request that Sites Management Activities Completed (SMAC) status be granted to the site. A cost estimate to implement the second monitoring and sampling round is included as Appendix C.

F:ICLIENTSICUMBRUND.FRMI4010BAR0ISUM0399,RPT



Project:

CFI - Station #4010

- 👡 Location: Barre, Vermont

Table 1 VDEC Site # 98-2415 Sheet 1 of 1

# **Ground Water Elevation/Product Level (feet)**

Data Point	TOC	01/28/99		 <del></del>	·	<del></del>
MW-1	101.15	80.00				
MW-2	100.66	79.36		 		
MW-3	100.70	79.45		 		
MW-4	100.00	79.00		 		
		<u> </u>				
				-	•	
		<u> </u>		 		
ļ		<u> </u>				
			<del> </del>	 		
	<u> </u>	<u>                                     </u>		 <u> </u>		
						<u> </u>

#### Notes:

2 - Reference elevation is elevation of top of PVC well casing

Light Grey Cell = DRY Dark Grey Cell = Inaccessible

<sup>1 -</sup> Elevation datum assumed

Project: CFI - Station #4010
Location: Barre, Vermont

Table 2 VDEC Site # 98-2415 Sheet 1 of 1

# Photoionization Results (PID - ppm)

Data Point	12/22/98	01/28/99	·-·			 
MW-1		BG			<u>.</u>	 
MW-2	·	BG				
MW-3		BG				 
MW-4		BG				 
CFI Store	BG					
Vogue Salon	BG					
Groleau Construction	BG			_		 
Catch Basin	BG					 

Project: CFI - Station #4010
Location: Barre, Vermont

Table 3 VDEC Site # 98-2415 Sheet 1 of 1

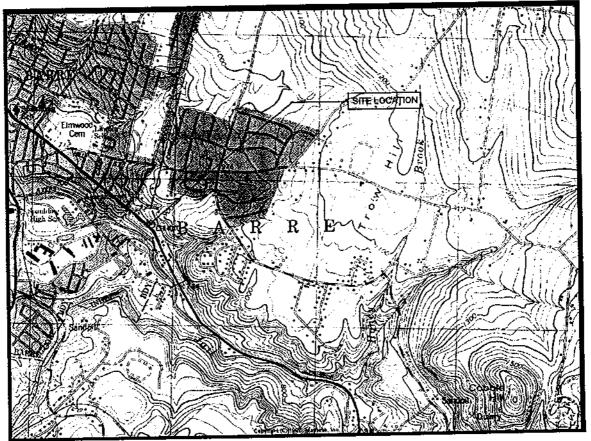
# Ground Water Quality Results (ppb)

Compound	01/28/99			<del></del>	
	<5				
Toluene					
Ethylbenzene	<5				
	<10				
MTBE	<5			ì	
BTEX -	<25				
BTEX + MTBE	<30				
TPH (8015)	<0.01				
Benzene	<5				
Toluene					
Ethylbenzene	<5				
	<10				
MTBE	<5				
BTEX	<25				
	<30				
	<0.01				
Benzene	<5				
·	<5				
Xylenes					
MTBE	<5				
BTEX					
BTEX + MTBE					
	<0.01				
			<u></u>	<del></del>	
Benzene	<5				
Benzene Toluene	<5 <5				
Toluene	<5				
Toluene Ethylbenzene	<5 <5				
Toluene	<5 <5 <5 <10				
Toluene Ethylbenzene Xylenes MTBE	<5 <5 <5 <10				
Toluene Ethylbenzene Xylenes	<5 <5 <5 <10 <5 <25				
Toluene Ethylbenzene Xylenes MTBE BTEX	<5 <5 <5 <10 <5 <25				
	Benzene Toluene Ethylbenzene Xylenes  MTBE BTEX BTEX + MTBE TPH (8015)  Benzene Toluene Ethylbenzene Xylenes  MTBE BTEX BTEX + MTBE TPH (8015)  Benzene Toluene Ethylbenzene Xylenes  MTBE BTEX BTEX + MTBE TPH (8015)  Benzene Toluene Ethylbenzene Xylenes MTBE BTEX BTEX + MTBE BTEX BTEX + MTBE BTEX	Benzene         <5	Benzene	Benzene	Benzene

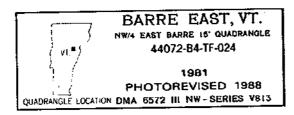
# Cumberland Farms, Inc. Station #4010, VDEC Site #98-2415 Barre, Vermont



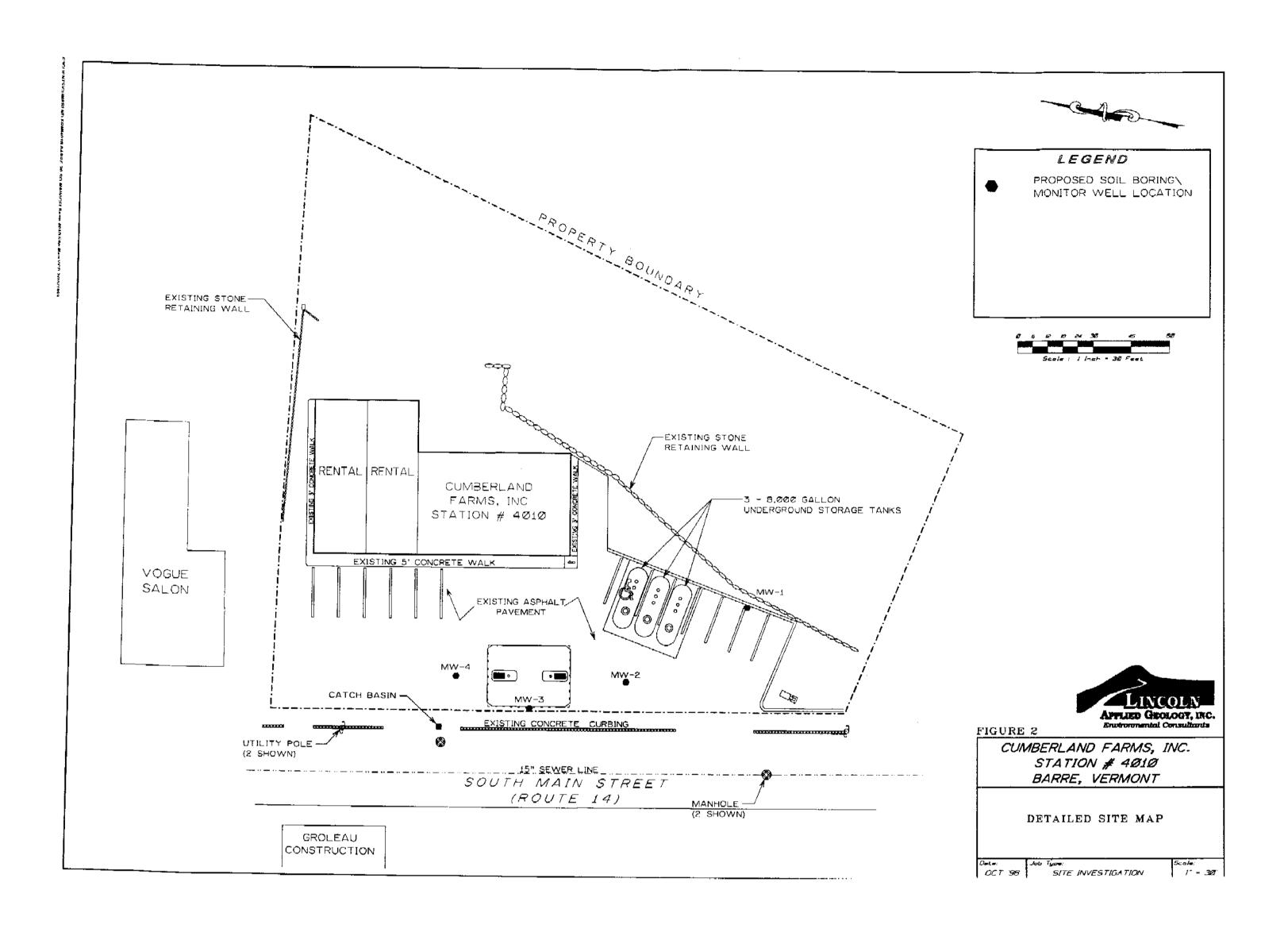
# GENERAL LOCATION MAP

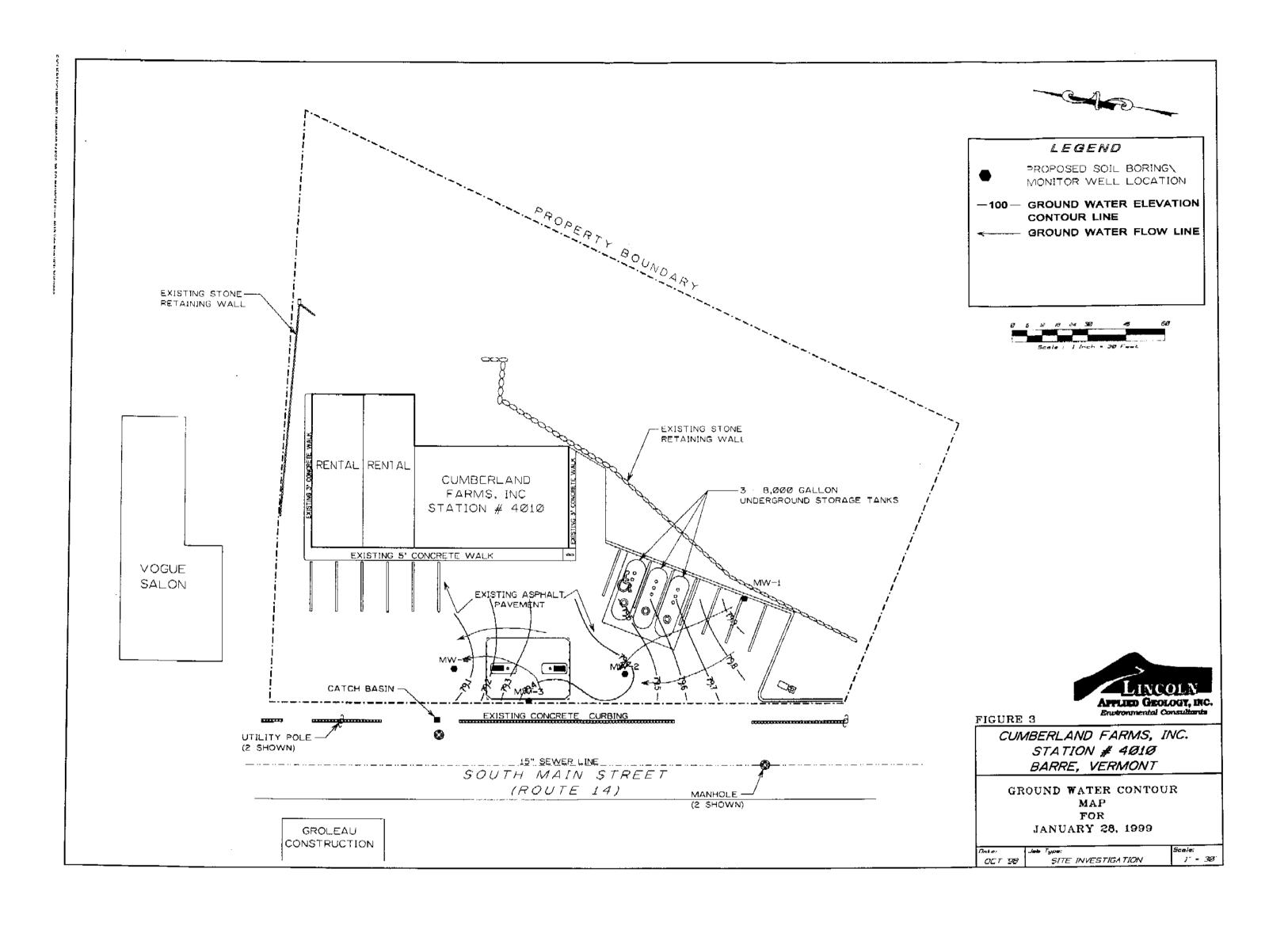


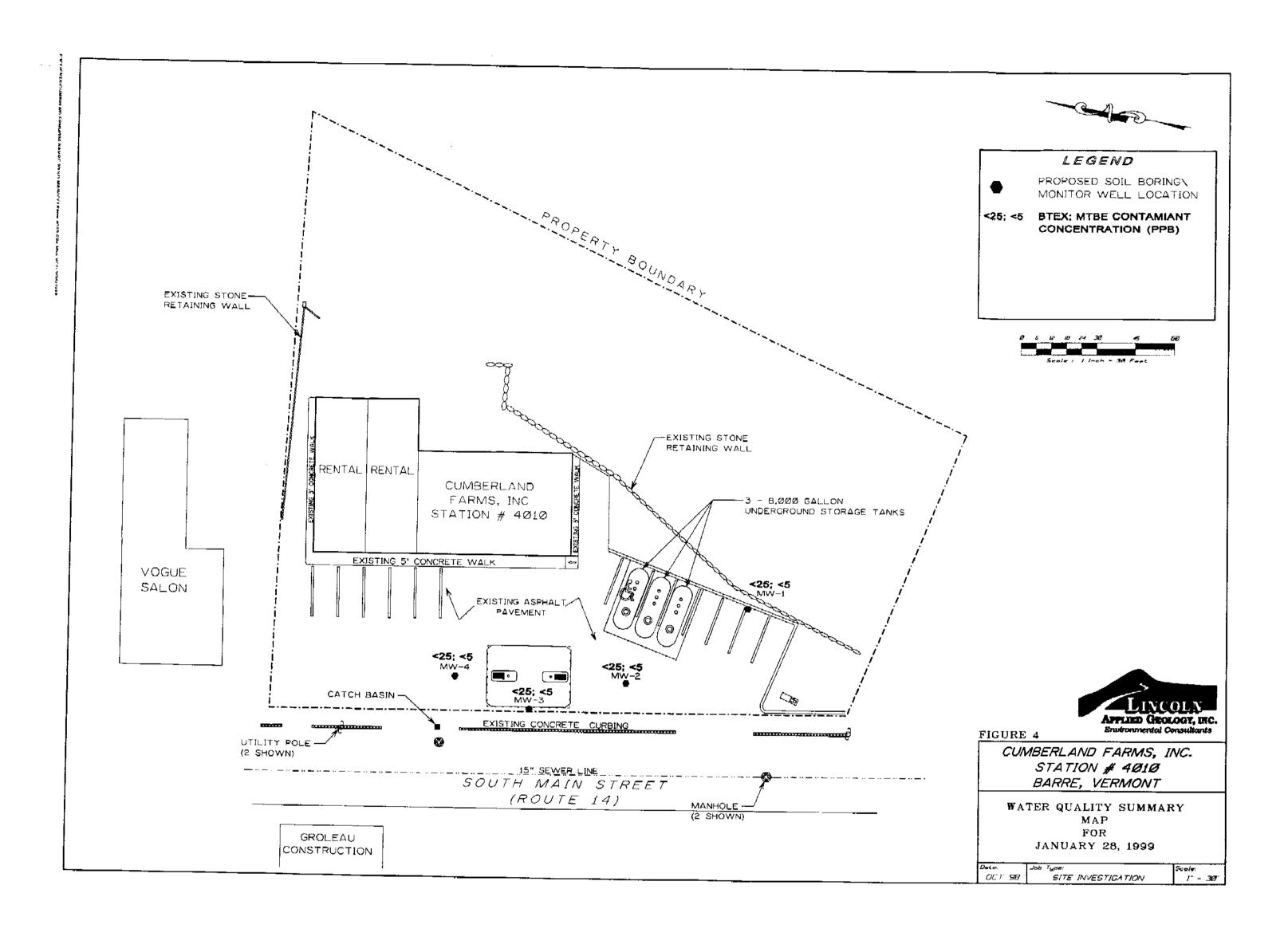
Scale 1" = 2,000'











Appendix A

**Detailed Well Logs** 

#### **WELL LOG**

WELL:

MW-1

LOCATION:

Cumberland Farms, Inc. - Barre, VT (Station #4010), near southeast corner of UST area.

DRILLER:

T&K Drilling and Boring

HYDROGEOLOGIST:

Jason Barnard, Lincoln Applied Geology, Inc.

DATE:

December 22, 1998

Soils	Descri	ption:

#### (BG = $\underline{B}$ ackground [0.2], SL = $\underline{S}$ aturated $\underline{L}$ amp (>500), ppm = $\underline{P}$ arts $\underline{P}$ er $\underline{M}$ illion)

<u>Depth</u>	<u>Description</u>	PID (ppm)
0.0 - 0.5'	Grey, fine sandy silt, weak blocky structure, dry.	BG
0.5' - 2.0'	Brown, very fine sandy loam, some silt, weak blocky structure, dry.	BG
5.0' - 5.8'	Brown, medium sand, dry.	BG
5.8' - 7.0'	Light brown, very fine sand, trace silt, dry.	BG
10.0' - 12.0'	Orangish brown, medium to coarse sand and medium gravel, dry.	BG
15.0' - 16.5'	Light brown to grey, medium sand and gravel, trace silt, dry.	BG
16.5' - 17.0'	Grey, medium sand, loose granular structure, dry.	BG
20.0' - 22.0'	Brown, fine to medium sand, some fine to medium gravel, trace silt, dry until 22' then moist.	BG
25.0' - 27.0'	Grey, medium to coarse sand, some medium to large gravel, saturated.	BG

#### Well Construction:

Bottom of Boring:

27.0° 27.0°

Bottom of Well: Well Screen:

10.0' (17.0 - 27.0') 2.0" diameter, sch. 40 PVC (0.010" slot)

Solid Riser:

16.5' (0.5' - 17.0') 2.0" diameter, sch. 40 PVC

Sand Pack:

12.0' (15.0' - 27.0') # 2 sand

Bentonite Seal:

1.0' (14.0' - 15.0') chips

Backfill:

13.5' (0.5 - 14.0') drill cuttings

Well Box:

Cemented flush

#### **WELL LOG**

WELL:

MW-3

LOCATION:

Cumberland Farms, Inc. - Barre, VT (Station #4010), side/downgradient of dispener island

DRILLER:

T&K Drilling Inc. and Tri-State Drilling and Boring. Jason Barnard, Lincoln Applied Geology, Inc.

HYDROGEOLOGIST: DATE:

January 8, 1999

Soils Description:

(BG = Background [0.2], SL = Saturated Lamp [>500], ppm = Parts Per Million)

<del></del>	(=	
<u>Depth</u>	<u>Description</u>	PID (ppm)
5.0' - 7.0'	Brown, fine to medium sand, some silt, trace small gravel, dry	BG
10.0' - 12.0'	Dark brown, fine to medium sand, trace silt and medium gravel, dry.	BG
15.0' - 16.0'	Brown, fine to medium sand, some silt and large rock fragments, dry.	BG
16.0' - 20.0'	Brown, fine to medium sand and gravel, trace silt, dry.	BG
20.0' - 27.0'	Brown, medium to coarse sand, some medium gravel, saturated.	BG

#### Well Construction:

Bottom of Boring:

27.0'

Bottom of Well:

27.0

Well Screen:

10.0" (17.0 - 27.0") 2.0" diameter Sch. 40 PVC, (0.010" slot)

Solid Riser:

16.5' (0.5 - 17.0') 2.0" diameter Sch. 40 PVC

Sand Pack:

12.0' (15.0 - 27.0') #1 sand

Bentonite Seal:

3.0' (12.0 - 15.0') chips

Backfill:

11.0 (1.0 - 12.0) drill cuttings

Well Box

Cemented flush

Note: Refusal at 16 feet below ground surface during hollow stem auger drilling, completed boring and well installation on January 8, 1999.

# Appendix B

Laboratory Reports for January 28, 1999

TOXIKON CORP. REPORT

हुत्य है कि क्रिकेट Work Order # 99-01-565

Received: 01/30/99

02/10/99 16:02:43

REPORT	LINCOLN APPLIED GEOLOGY	PREPARED TOXIKUN CORPORATION
TO	REVELL DRIVE	BY 15 WIGGINS AVE
	LINCOLN, VT 05443	BEDFORD, MA 01730
	802-453-4384 FAX: 5399	_ CERTIFIED BY
ATTEN	JASON BARNARD	ATTEN PAUL LEZBERG
		PHONE (781)275-3330 CONTACT JOHNM
CLIENT	LINCOLN VT SAMPLES	<u>5</u>
COMPANY	LINCOLN APPLIED GEOLOGY	MA CERT # M-MAO64: TRACE METALS, SULFATE, CYANIDE, RES. FREE
FACILITY	REVELL DRIVE	CHLORINE, Ca, TOTAL ALK., TDS, pH, THMs, VOC, PEST., NUTRIENTS.
	LINCOLN, VT 05443	DEMAND. O&G, PHENOLICS, PCBs . CT DHS #PH-0563, NY #10778
		FL HRS E87143, NJ DEP 59538, NC DNR286, SC 88002, NH 204091-C.
WORK ID	CFI BARRE VT STATION #4010	_
TAKEN	1/28/99	VERIFIED BY:
	WATER	$\mathcal{Y}$
P.O. #		_
INVOICE	under separate cover	
SAMPLI	E IDENTIFICATION	TEST CODES and NAMES used on this workorder
01 TRIP	BLANK 826	O PURGEABLE ORGANICS VOA
02 MW-1	GRO	GASOLINE RANGE ORGANICS
03 MW-2		
04 MW-4		
05 MW-3		

REPORT

Work Order # 99-01-565

Received: 01/30/99

Results by Sample

SAMPLE ID TRIP BLANK

FRACTION <u>01A</u> TEST CODE <u>8260</u> NAME <u>PURGEABLE ORGANICS VOA</u> Date & Time Collected 01/28/99 08:00:00 Category WATER

#### EPA 8260 PURGEABLE ORGANICS

	RESULT LIMI	τ	RESULT LIMIT
Chloromethane	ND	<u>10</u> o-Xylene	ND5.0
Bromomethane	<u>ND</u> 5	<u>.0</u> m+p-Xylene	<u>ND</u> 5.0
Vinyl Chloride	ND2.	<u>.0</u> 1,2-Dichlorobenzene	<u>ND 5.0</u>
Chloroethane	ND 1	10 1,3-Dichlorobenzene	<u>ND 5.0</u>
Methylene Chloride	ND	10 1,4-Dichlorobenzene	<u>ND 5.0</u>
1,1-Dichloroethene	<u>NĐ</u> _5.	<u>.0</u> Naphthalene	ND10
Trichlorofluoromethane	ND	<u>10</u> n-Propylbenzene	<u>ND</u> <u>10</u>
1,1-Dichloroethane	<u>ND 5</u>	<u>.O</u> Bromobenzene	<u>ND 5.0</u>
Trans-1,2-Dichloroethene	<u>ND 5</u>	<u>.0</u> Bromchloromethane	ND
Chloroform	<u>ND</u> 5	<u>.0</u> n-Butylbenzene	<u>ND</u> 10
1,2-Dichloroethane	<u>ND</u> 5	<u>.0</u> sec-Butylbenzene	<u>ND</u> <u>10</u>
1,1,1-Trichloroethane	<u>ND</u> 5	<u>.0</u> tert-Butylbenzene	<u>ND</u> <u>10</u>
Carbon Tetrachloride	<u> </u>	<u>.0</u> 2-Chlorotoluene	<u>ND 5.0</u>
Bromodichloromethane	<u>ND</u> 5	<u>.0</u> 4-Chlorotoluene	<u>ND</u> <u>5.0</u>
1,2-Dichloropropane	<u> </u>	.0 1,2-Dibromo-3-chloropropane	ND _5.0
Trichloroethene	<u>ND</u> 5	.0 1,2-Dibromoethane	<u>ND 5.0</u>
Dibromochloromethane	<u>ND 5</u>	.0 Dibromomethane	ND 5.0
1,1,2-Trichloroethane	<u>ND</u> 5	.0 Dichlorodifluoromethane	<u>ND</u> <u>10</u>
Benzene	ND 5	.0 cis-1,2-Dichloroethene	<u> ND 5.0</u>
1,1-Dichloropropene	ND5	<u>.0</u> 1,3-Dichloropropane	ND 5.0
2-2-Dichlorpropane	<u>ND</u> 5	.0 1,1,1,2-Tetrachloroethane	<u>ND</u> <u>5.0</u>
Bromoform	<u>ND</u> 5	.0 1,2,3-Trichlorobenzene	ND
Hexachlorobutadiene	ND	10 1,1,2,2-Tetrachloroethane	ND 5.0
Isopropylbenzene	ND	10 1,2,4-Trichlorobenzene	ND <u>5.0</u>
Tetrachloroethene	<u>NO5</u>	.0 1,2,3-Trichloropropane	<u>ND 5.0</u>
Methyl tertiary butyl ether	<u> ND 5</u>	<u>.0</u> 1,2,4-Trimethylbenzene	<u>ND</u> 10
Toluene	<u>NO 5</u>	<u>.0</u> 1,3,5-Trimethylbenzene	<u>ND</u> <u>10</u>
Chlorobenzene	<u>ND 5</u>	.0 cis-1,3-Dichloropropene	<u>ND 5.0</u>
Ethyl Benzene	<u>ND 5</u>	.0 trans-1,3-Dichloropropene	<u>ND 5.0</u>
p-Isopropyltoluene	ND	10 Styrene	<u>ND 5.0</u>
1			

DATE RUN	02/09/99	
ANALYST	<u>JCP</u>	
INSTRUMENT	В	
DIL. FACTOR	1	
UNITS	ug/L	APELL
COMMENTS		, a sea que somo

Page 3 TOXIKON CORP. REPORT Work Order # 99-01-565
Received: 01/30/99 Results by Sample

SAMPLE ID MW-1

FRACTION <u>02A</u> TEST CODE <u>8260</u> NAME <u>PURGEABLE ORGANICS VOA</u> Date & Time Collected 01/28/99 13:45:00 Category WATER

# EPA 8260 PURGEABLE ORGANICS

•	RESULT LIMI	т	RESULT L	IMIT
Chloromethane	ND	<u>10</u> o-Xylene	ND	<u>5.0</u>
Bromomethane	<u>ND 5</u>	<u>.0</u> m+p-Xylene	МО	5.0
Vinyl Chloride	<u>ND 2</u>	<u>.0</u> 1,2-Dichlorobenzene	ND	<u> 5.0</u>
Chloroethane	ND	10 1,3-Dichlorobenzene	ND	<u> 5.0</u>
Methylene Chloride	ND	10 1,4-Dichlorobenzene	ND	<u>5.0</u>
1,1-Dichloroethene	ND 5	.O Naphthalene	<u>ND</u>	<u>10</u>
Trichlorofluoromethane	ND	10 n-Propylbenzene	ND	<u>10</u>
1.1-Dichloroethane	ND 5	_0 Bromobenzene	<u></u>	<u>5.0</u>
Trans-1,2-Dichloroethene	ND 5	.O Bromchloromethane	ND	5.0
Chloroform	ND 5	.0 n-Butylbenzene	. <u>ND</u>	<u>10</u>
1,2-Dichloroethane	ND 5	<u>.0</u> sec-Butylbenzene	<u>ND</u>	<u>10</u>
1,1,1-Trichloroethane	NO 5	<u>.0</u> tert-Butylbenzene	ND	10
Carbon Tetrachloride	ND 5	<u>.0</u> 2-Chlorotoluene	ND	<u>5.0</u>
Bromodichloromethane	<u>ND 5</u>	<u>.0</u> 4-Chlorotoluene	ND	<u>5.0</u>
1,2-Dichloropropane	<u>ND 5</u>	.0 1,2-Dibromo-3-chloropropane	ND	<u> 5.0</u>
Trichloroethene	<u>ND</u>	.0 1,2-Dibromoethane	ND	<u>_5.0</u>
Dibromochloromethane	<u>ND</u>	<u>.0</u> Dibromomethane	ND	<u>5.0</u>
1,1,2-Trichloroethane	<u>ND</u>	.0 Dichlorodifluoromethane	<u>CM</u>	<u>10</u>
Benzene	<u>ND</u> 5	<u>.0</u> cis-1,2-Dichtoroethene	ND	<u>5.0</u>
1,1-Dichtoropropene	<u>ND</u> 5	6.0 1,3-Dichloropropane	ND	<u>5.0</u>
2-2-Dichlorpropane	ND5	.0 1,1,1,2-Tetrachloroethane	ND	<u> 5.0</u>
Bromoform	<u></u>	5 <u>.0</u> 1,2,3-Trichlorobenzene	ND	<u>5.0</u>
Kexachlorobutadîene	ND	10 1,1,2,2-Tetrachloroethane	<u> </u>	<u>5.0</u>
Isopropylbenzene	ND	10 1,2,4-Trichlorobenzene	ND	
Tetrachloroethene	ND	5.0 1,2,3-Trichloropropane	ND	
Methyl tertiary butyl ether	ND	5.0 1,2,4-Trimethylbenzene	ND	
Toluene		5.0 1,3,5-Trimethylbenzene	<u>ND</u>	
Chlorobenzene	ND	5.0 cis-1,3-Dichloropropene	ND	
Ethyl Benzene	ND	5.0 trans-1,3-Dichtoropropene	ND	
p-Isopropyltoluene	<u>nd</u>	10 Styrene	<u> </u>	<u> 5.0</u>

DATE RUN	efinitions for this report: 02/09/99	j
ANALYST	<u>JCP</u>	
INSTRUMENT	8	a
DIL. FACTOR	1	11 8.2
UNITS	<u>ug/L</u>	
COMMENTS		APPLING GOOL
		and designation of the second second

Results by Sample

Receiv	ada A1	730700
Keceia	ea: vi	/30/77

Page 5

SAMPLE ID MW-2

FRACTION 03A TEST CODE 8260 NAME PURGEABLE ORGANICS VOA Date & Time Collected 01/28/99 12:40:00 Category WATER

### EPA 8260 PURGEABLE ORGANICS

	RESULT	LIMIT		RESULT	LIMIT
Chloromethane	N	D 10	o-Xylene		<u>ND</u> <u>5.0</u>
Bromomethane	N	D <u>5.0</u>	m+p-Xylene		<u>ND 5.0</u>
Vinyl Chloride	N	D 2.0	1,2-Dichlorobenzene		<u>ND 5.0</u>
Chloroethane	N	<u> </u>	1,3-Dichlorobenzene		<u>ND 5.0</u>
Methylene Chloride	N	010	1,4-Dichlorobenzene		ND
1,1-Dichloroethene	N	0 5.0	Naphthalene		<u>ND 10</u>
Trichlorofluoromethane	N	D 10	n-Propylbenzene		<u>ND</u> <u>10</u>
1,1-Dichloroethane	N	<u> 5.0</u>	8romobenzene		ND 5.0
Trans-1,2-Dichloroethene	<u></u> N	D 5.0	Bromchloromethane		ND <u>5.0</u>
Chloroform	N	<u> 5.0</u>	n-Butylbenzene		ND 10
1,2-Dichloroethane	N	<u>D 5.0</u>	sec-Butylbenzene		ND 10
1,1,1-Trichloroethane	N	D	tert-Butylbenzene		<u>ND</u> 10
Carbon Tetrachloride	N	<u> 5.0</u>	2-Chlorotoluene		ND 5.0
Bromodichloromethane	N	<u>5.0</u>	4-Chlorotoluene		ND
1,2-Dichloropropane	N	<u> 5.0</u>	1,2-Dibromo-3-chtoropropane		ND 5.0
Trichloroethene	N	<u>5,0</u>	1,2-Dibromoethane		<u>ND</u> <u>5.0</u>
Dibromochloromethane	N	<u>D _ 5.0</u>	Dibromomethane		ND 5.0
1,1,2-Trichloroethane	N	<u> 5.0</u>	Dichlorodifluoromethane	-	<u>ND 10</u>
Benzene	N	<u> 5.0</u>	cis-1,2-Dichloroethene		<u>ND</u> <u>5.0</u>
1,1-Dichloropropene		D _ 5.0	1,3-Dichloropropane		ND 5.0
2-2-Dichlorpropane	<u>K</u>	<u> 5.0</u>	1,1,1,2-Tetrachloroethane		ND 5.0
Bromoform	<u></u>	<u>D 5.0</u>	1,2,3-Trichlorobenzene		ND <u>5.0</u>
Nexachlorobutadiene		10	1,1,2,2-Tetrachloroethane		ND 5.0
Isopropytbenzene	<u>k</u>	<u>10</u>	1,2,4-Trichlorobenzene		<u>ND 5.0</u>
Tetrachloroethene	<u> </u>	<u> 5.0</u>	1,2,3-Trichloropropane		<u>ND 5.0</u>
Methyl tertiary butyl ether	<u></u>	<u>D 5.0</u>	1,2,4-Trimethylbenzene		ND10
Toluene	N	<u>1D 5.0</u>	1,3,5-Trimethylbenzene		<u>ND</u> <u>10</u>
Chlorobenzene		<u>10 _ 5.0</u>	cis-1,3-Dichloropropene		ND
Ethyl Benzene		<u>5.0</u>	trans-1,3-Dichloropropene		ND
p-Isopropyltoluene		<u>ID 10</u>	Styrene		<u>ND</u> <u>5.0</u>
1					

Notes and de	finitions for this report:	√ : - <b>?</b> \
DATE RUN ANALYST INSTRUMENT DIL. FACTOR	02/10/99 JCP	APT CHES GEOLG
UNITS COMMENTS	_ug/L	_
ND = Not det	ected at detection limit	

15 ( ) ( ) ( ) ( ) ( )

Page 6

TOXIKON CORP.

REPORT

Work Order # 99-01-565

Received: 01/30/99

Results by Sample

SAMPLE	ID	MW-2	
--------	----	------	--

FRACTION <u>03A</u> TEST CODE <u>GRO</u> NAME <u>GASOLINE RANGE ORGANICS</u>

Date & Time Collected <u>01/28/99 12:40:00</u> Category <u>MATER</u>

	8015 MODIFIED GRO
ALIPHATICS AROMATICS	RESULT LIMIT  *
- - -	
	Notes and Definitions for this Report:
	DATE RUN 02/03/99  ANALYST SEP  INSTRUMENT V5  DIL. FACTOR 1
	UNITS = mg/L

APPLED GEOLO

 $\|\hat{f}-\hat{g}\|_{L^{2}}^{2}$ 

- 10 (M)

Page 7 YOXIKON CORP. REPORT Work Order # 99-01-565
Received: 01/30/99 Results by Sample

SAMPLE ID MU-4 FRACTION 04A TEST CODE 8260 NAME PURGEABLE ORGANICS VOA Date & Time Collected 01/28/99 13:00:00 Category WATER

# EPA 8260 PURGEABLE ORGANICS

	RESULT	LIMIT		RESULT LIMIT	
Chloromethane		ND 10	o-Xylene	סא	-
Bromomethane		ND 5.0	m+p-Xylene	DND	_
Vinyl Chloride		NO 2.0	1,2-Dichlorobenzene	<u>ND 5.0</u>	
Chloroethane		ND 10	1,3-Dichlorobenzene	<u>ND</u> 5.0	
Methylene Chloride		ND10	1,4-Dichtorobenzene	<u>ND</u> 5.0	-
1,1-Dichloroethene		ND	Naphthalene	<u>ND</u> 10	_
Trichlorofluoromethane		ND 10	n-Propylbenzene	<u>ND</u> 10	-
1,1-Dichloroethane		ND 5.0	Bromobenzene	<u>ND</u> 5.0	ĩ
Trans-1,2-Dichloroethene		ND 5.0	Bromchloromethane	<u>NĐ 5.0</u>	ī
Chloroform		ND 5.0	n-Butylbenzene	<u>ND</u> 10	_
1,2-Dichloroethane		ND 5.0	sec-Butylbenzene	<u>ND</u> 10	_
1,1,1-Trichloroethane		ND 5.0	tert-Butylbenzene	<u>ND</u> 10	_
Carbon Tetrachloride	<del></del>	ND 5.0	2-Chlorotoluene	NO5.0	_
Bromodichloromethane		ND 5.0	4-Chlorotoluene	ND _5.0	_
1,2-Dichloropropane		ND 5.0	1,2-Dibromo-3-chloropropane	<u>ND 5.0</u>	
Trichloroethene		ND 5.0	1,2-Dibromoethane	<u>ND 5.0</u>	_
Dîbromochloromethane		ND 5.0	Dibromomethane	<u>ND 5.0</u>	
1,1,2-Trichloroethane		NO 5.0	Dichlorodifluoromethane	<u>ND10</u>	
Benzene		ND 5.0	cis-1,2-Dichloroethene	<u>ND 5.0</u>	)
1,1-Dichloropropene		ND 5.0	1,3-Dichloropropane	ND 5.0	<u>J</u>
2-2-Dichlorpropane		ND 5.0	1,1,1,2-Yetrachloroethane	<u>ND 5.0</u>	<u>)</u>
Bromoform		ND 5.0	1,2,3-Trichlorobenzene	ND 5.0	<u>J</u>
Hexachlorobutadiene		NO 10	1,1,2,2-Tetrachloroethane	<u>ND5.0</u>	5
Isopropylbenzene	-	ND 10	1,2,4-Trichlorobenzene	ND5.0	_
Tetrachloroethene		ND	1,2,3-Trichloropropane	<u> ND _ 5.0</u>	5
Methyl tertiary butyl ether		ND 5.0	1,2,4-Trimethylbenzene	ND10	<u> </u>
Toluene		ND 5.0	1,3,5-Trimethylbenzene	<u>ND</u> 10	ō
Chlorobenzene		ND 5.0	cis-1,3-Dichloropropene	<u>ND 5.0</u>	<u>0</u>
Ethyl Benzene		ND 5.0	trans-1,3-Dichloropropene	ND5.0	<u>0</u>
p-!sopropy(toluene		ND 10	Styrene	ND5.0	<u>0</u>
1					

DATE RUN	02/10/99	
ANALYST	<u>JCP</u>	
INSTRUMENT	<u>B</u>	
DIL. FACTOR	1	1977
UNITS	<u>ug/L</u>	
COMMENTS		

Page 8

TOXIKON CORP. REPORT

Work Order # 99-01-565

Received: 01/30/99

Results by Sample

SAMPLE ID MW-4

FRACTION 04A TEST CODE GRO NAME GASOLINE RANGE ORGANICS

Date & Time Collected 01/28/99 13:00:00

0.010

Category <u>WATER</u>

8	0	1	5	MC	D	IF	Ί	ΕD	GRO
---	---	---	---	----	---	----	---	----	-----

RESULT LIMIT ALIPHATICS ND 0.010 AROMATICS

Notes and Definitions for this Report:

02/03/99 DATE RUN ANALYST

INSTRUMENT DIL. FACTOR UNITS = mg/L

ND = not detected at detection limit

14 P

Approximately

Viet Control

REPORT

Work Order # 99-01-565

Received: 01/30/99

Results by Sample

SAMPLE ID MN-3

FRACTION 05A TEST CODE 8260 NAME PURGEABLE ORGANICS VOA

Date & Time Collected 01/28/99 13:20:00 Category WATER

# EPA 8260 PURGEABLE ORGANICS

	RESULT LIMIT		RESULT LIMIT
Chloromethane	<u>ND</u> 10	o-Xylene	ND _5.0
Bromomethane	<u>5.0</u>	m+p-Xylene	ND5.0
Vinyl Chloride	ND 2.0	1,2-Dichlorobenzene	<u>ND</u> 5.0
Chloroethane	<u>ND</u> 10	1,3-Dichlorobenzene	<u>ND 5.0</u>
Methylene Chloride	<u>ND</u> <u>10</u>	1,4-Dichlorobenzene	<u>ND 5.0</u>
1,1-Dichloroethene	<u>NO 5.0</u>	Naphthalene	<u>ND 10</u>
Trichlorofluoromethane	<u>ND</u> 10	n-Propylbenzene	<u>ND</u> <u>10</u>
1,1-Dichloroethane	<u>ND 5.0</u>	Bromobenzene	<u>ND 5.0</u>
Trans-1,2-Dichloroethene	<u>ND</u> 5.0	Bromchloromethane	<u>ND</u> _ 5.0
Chloroform	<u>ND 5.0</u>	n-Butylbenzene	<u>ND</u> <u>10</u>
1,2-Dichloroethane	<u>ND</u> 5.0	sec-Butylbenzene	<u>ND</u> <u>10</u>
1,1,1-Trichloroethane	ND 5.0	tert-Butylbenzene	<u>NO 10</u>
Carbon Tetrachloride	<u>ND</u> 5.0	2-Chlorotoluene	ND5.0
Bromodichloromethane	<u>ND 5.0</u>	4-Chlorotoluene	ND5.0
1,2-Dichloropropane	ND5.0	1,2-Dibromo-3-chloropropane	<u>ND</u> <u>5.0</u>
Trichloroethene	<u>ND</u> 5.0	1,2-Dibromoethane	<u>ND 5.0</u>
Dibromochloromethane	<u>ND 5.0</u>	Dibromomethane	<u>ND 5.0</u>
1,1,2-Trichloroethane	ND 5.0	Dichlorodifluoromethane	<u>ND</u> <u>10</u>
Benzene	ND 5.0	cis-1,2-Dichloroethene	ND5.0
1,1-Dichloropropene	<u>ND 5.0</u>	1,3-Dichloropropane	<u>ND 5.0</u>
2-2-Dichlorpropane	ND	1,1,1,2-Tetrachloroethane	ND5.0
Bromoform	<u>ND</u> 5.0	1,2,3-Trichlorobenzene	` <u>ND</u> <u>5.0</u>
Hexachlorobutadiene	ND 10	1,1,2,2-Tetrachloroethane	ND 5.0
Isopropylbenzene	<u>ND</u> 10	1,2,4-Trichlorobenzene	ND5.0
Tetrachloroethene	ND 5.0	1,2,3-Trichloropropane	<u>ND 5.0</u>
Methyl tertiary butyl ether	ND 5.0	1,2,4-Trimethylbenzene	<u>ND</u> 10
Toluene	<u>ND 5.0</u>	1,3,5-Trimethylbenzene	ND10
Chlorobenzene	<u> мо 5.0</u>	cis-1,3-Dichloropropene	<u>ND 5.0</u>
Ethyl Benzene	<u>ND 5.0</u>	trans-1,3-Dichloropropene	ND5.0
p-Isopropyltoluene	ND 10	Styrene	ND5.0
1			

DATE RUN	02/09/99	<u>-</u> .
ANALYST	<u>JCP</u>	
INSTRUMENT	В	
DIL. FACTOR	1	APP (S)
UNITS	_ug/L	a with the series of six is
COMMENTS		

TOXIKON CORP. REPORT Work Order # 99-01-565 Page 10 Results by Sample Received: 01/30/99 SAMPLE ID MW-3 FRACTION OSA TEST CODE GRO NAME GASOLINE RANGE ORGANICS

Date & Time Collected 01/28/99 13:20:00 Category WATER

	8015 MODIFIED GRO
	RESULT LIMIT
	*
ALIPHATICS	ND 0.010
AROMATICS	<u>ND</u> <u>0,010</u>
_	
-	
_	
	Notes and Definitions for this Report:
	Notes and Definitions for this Report:
	Notes and Definitions for this Report:  DATE RUN 02/03/99
	DATE RUN <u>02/03/99</u>
	DATE RUN 02/03/99 ANALYSTSEP

Page 11

Received: 01/30/99

Test Methodology

TEST CODE 8260 NAME PURGEABLE ORGANICS VOA

EPA METHOD: 8260B: Gas Chromatography/Mass Spectrometry for Volatile Organics.

Reference: Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods.

EPA SW-846 Final Update III, 1996. Office of Solid Waste, USEPA.

SOIL RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

TEST CODE GRO NAME GASOLINE RANGE ORGANICS

METHOD: EPA METHOD 8015 Modified; Gasoline Range Organics

Nonhalogenated Volatile Organics. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods 3rd Edition, Final Update I.

Quantitation for BTEX/MTBE is performed by analysis on a PID detector. Miscellaneous aromatics eluting between o-xylene and 1,2,4-trimethylbenzene are quantitated on the PID detector using the response factor of o-xylene. Miscellaneous aliphatics eluting between 3-methylpentane and isooctane are quantitated on the FID detector using the response factor of n-hexane.

This method meets the specifications of Maine DEP Method 3.1.1.2.6

APPLIED COOLS

Telephone: (781) 275-3330 Fax: (781) 275-7478

# **CHAIN OF CUSTODY RECORD**

WORK ORDER #: 47 -01 - 565

DUE DATE : 9 - 11 - 99

COMPANY:	111	K . \ \	SAMPLE TYPE		R TYPE		<u> تن</u> ي	· · · · · · · · · · · · · · · · · · ·	ANAL	YSES	<u> </u>	
PHONE #: ( ) F.O. #:	AX#:(^^_)		1. WASTEWATER 2. SOIL 3. SLUDGE 4. OIL 5. DRINKING WATE	G-GLASS V-VOA								
PROJECT MANAGER:			6. WATER (GWMW) 7. OTHER (SPECIF				//	/,		//,	/,	//
	CONTAINER	SAMPLING DATE TIME	PRESERVATIVI	<b>-</b>						//		SPECIAL INSTRUCTIONS/ COMMENTS
1 Too Elland 6W	1972 GV 2	1/245 200		Х								
	~ 2 2	1 195		Х				<u>'</u>				
d ( )	· sar	145	1 18/ C	X								P+1 7
2/11/2	ाल् जि	Q /	1/ 1	X								
2   2	Lite 1	Q7		X								PHT
1 1941 - 4	ang S	150	11, 1 -	X								······
1 1 4		1.19	ζ,	X								ρ# 🥎
	<u> </u>	1 47	1 H ( )	X								
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.00	14, 2	X	ļ							PH7
								<u> </u>				
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \												<del></del>
SAMPLED BY: DATE: TIME:		QUOTATIO	)N #:					21121				
RELINQUISHED BY: DATE: TIME:		RECEIVED	BY:	DATE: TIME:	-	-		ROUT	INE			TURN AROUND
RELINQUISHED BY: DATE: /	-30 - 9	RECEIVED	FOR LAB BY:	DATE:	/ -3		Sa.	mple ( there ar	<i>dispos</i> ny other	<i>al inforn</i> known of	suspe	cted
METHOD OF SHIPMENT USPS TIME: 7	- 00	COOLER T	MPERATURE	TIME:	7 - a	<u></u>	thos	e listed	above?	se sample If Yes, 1st		

Appendix C

**Cost Estimate** 

# Cumberland Farms, Inc. (CFI) 20 South Main Street, Barre, Vermont VDEC #98-2415

#### 25-Mar-99

# Cost Estimate for Confirmatory Site Monitoring and Water Quality Sampling

# Task A. Ground Water Sampling (One Round)

Hydrogeologist/Site Manager -	1	hr(s) @	\$60.00	per hour			60.00
	6		\$35.00	per hour	\$	Ş	210.00
			\$8.89	each	•	\$	35.56
						\$	500.00
		_					202.50
		_				\$	30.00
*				-			110.00
Sampling Equipment -	1	day(s) @	\$110.00	per day	`	*	110.00
						<del></del>	1,148.06
					Suptotal	Þ	1,140.00
Preparation of Summary Report							
						_	
Principal/Senior Hydrogeologist -	0.5	hr(s) @	\$85.00	per hour			42.50
	1	hr(s) @	\$60,00	per hour	•	\$	60.00
• •	3		\$50.00	per hour	•	\$	150.00
			· .	•	,	\$	80.00
		–	-	-			70.00
Administrative Assistant -	2	nr(s) @	<b>\$35.00</b>	per nour	•	•	,
					Subtotal =	\$	402.50
				Grand	Total >>>[	\$	1,550.56
	Hydrogeologist/Site Manager - Field Technician - Disposable Bailer (1.5") - EPA 8260- EPA 8015 TPH- Mileage - Sampling Equipment -  Preparation of Summary Report  Principal/Senior Hydrogeologist - Hydrogeologist/Site Manager - Geologist - Computer/CAD Technician - Administrative Assistant -	Field Technician - 6 Disposable Bailer (1.5") - 4 EPA 8260- 5 EPA 8015 TPH- 5 Mileage - 100 Sampling Equipment - 1  Preparation of Summary Report  Principal/Senior Hydrogeologist - 1 Hydrogeologist/Site Manager - 1 Geologist - 3 Computer/CAD Technician - 2	Field Technician - 6 hr(s) @ Disposable Bailer (1.5") - 4 @ EPA 8260- 5 @ EPA 8015 TPH- 5 @ Mileage - 100 mile(s) @ Sampling Equipment - 1 day(s) @  Preparation of Summary Report  Principal/Senior Hydrogeologist - 1 hr(s) @ Hydrogeologist/Site Manager - 1 hr(s) @ Geologist - 3 hr(s) @ Computer/CAD Technician - 2 hr(s) @	Field Technician - 6 hr(s) @ \$35.00 Disposable Bailer (1.5") - 4 @ \$8.89 EPA 8260- 5 @ \$100.00 EPA 8015 TPH- 5 @ \$40.50 Mileage - 100 mile(s) @ \$0.30 Sampling Equipment - 1 day(s) @ \$110.00  Preparation of Summary Report  Principal/Senior Hydrogeologist - 1 hr(s) @ \$60.00 Hydrogeologist/Site Manager - 1 hr(s) @ \$60.00 Geologist - 3 hr(s) @ \$50.00 Computer/CAD Technician - 2 hr(s) @ \$40.00	Field Technician - Disposable Bailer (1.5") - EPA 8260- EPA 8015 TPH- Mileage - Sampling Equipment -  Principal/Senior Hydrogeologist - Hydrogeologist/Site Manager - Geologist - Geologist - Geologist - Computer/CAD Technician - Administrative Assistant -  Administrative Assistant -  EPA 8260- \$88.89 each \$100.00 each \$40.50 each \$40.50 each \$100 mile(s) @ \$0.30 per mile \$40.30 per day  \$110.00 per day  \$85.00 per hour \$60.00 per hour	Field Technician - 6 hr(s) @ \$35.00 per hour Disposable Bailer (1.5") - 4 @ \$8.89 each EPA 8260- 5 @ \$100.00 each EPA 8015 TPH- 5 @ \$40.50 each Mileage - 100 mile(s) @ \$0.30 per mile Sampling Equipment - 1 day(s) @ \$110.00 per day  Subtotal  Preparation of Summary Report  Principal/Senior Hydrogeologist - 1 hr(s) @ \$60.00 per hour Hydrogeologist/Site Manager - 2 hr(s) @ \$50.00 per hour Administrative Assistant - 2 hr(s) @ \$35.00 per hour  Subtotal	Field Technician - 6 hr(s) @ \$35.00 per hour \$ Disposable Bailer (1.5") - 4 @ \$8.89 each \$ EPA 8260- 5 @ \$100.00 each \$ EPA 8015 TPH- 5 @ \$40.50 each \$ Mileage - 100 mile(s) @ \$0.30 per mile \$ Sampling Equipment - 1 day(s) @ \$110.00 per day \$  Subtotal \$  Preparation of Summary Report  Principal/Senior Hydrogeologist - 1 hr(s) @ \$85.00 per hour \$ Hydrogeologist/Site Manager - 1 hr(s) @ \$60.00 per hour \$ Geologist - 3 hr(s) @ \$50.00 per hour \$ Computer/CAD Technician - 2 hr(s) @ \$40.00 per hour \$